Group Project Proposal (BANA 6620)

'Fall 2022 5' Group Members:
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TOPIC:
An analysis of influencing factors on housing price: focusing on housing price in Boston

The importance of the project:
Housing price is the most important and essential item of a household's economic expenditure. In reality, various factors such as the structure, environment, and tax can affect housing price. Therefore, it is very important to analyze what influencing factors can affect housing price and to what extent those factors can affect housing price. In this project, we will analyze the influencing factors on housing price using the 1978 US Census Service dataset for the Boston area.

Dataset description:
The dataset for this project was obtained from the Boston Housing Dataset webpage(https://www.cs.toronto.edu/~delve/data/boston/bostonDetail.html?ref=morioh.com&utm_source=morioh.com).
This dataset contains 506 cases and 14 variables such as the median value of owner-occupied homes (housing price), per capita crime rate, the average number of rooms, etc.

Research Methodology:
To analyze this research topic and dataset, we will utilize web scrapping, descriptive analysis, data visualization, and multiple linear regression with Python.
Web scraping is a technique that uses a dataset written on a web page for analysis. Boston housing price dataset is not in the form of .csv file, but a dataset on a web page that requires web scraping to utilize it. Moreover, since the dataset has 14 variables including housing price which is a continuous variable, it is appropriate to use multiple linear regression to analyze the influencing factors on housing price. In addition, descriptive analysis of various attributes of the dataset and data visualization will be used together.